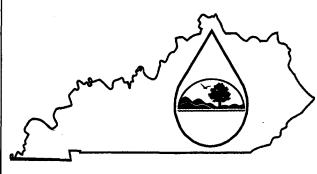
KPDES FORM 1



KENTUCKY POLLUTANT DISCHARGE **ELIMINATION SYSTEM**

2004 JUL 12 P 3: 22

PERMIT APPLICATION

		DIVISION OF WATER				
This is an application to: (check	one)	A complete application consists of this form and one of the				
Apply for a new permit.	,	following:				
Apply for reissuance of ex		Form A, Form B, Form C, Form F, or Short Form C				
Apply for a construction pe		047 th 0	1			
Modify an existing permit.		For additional information contact: KPDES Branch (502) 564-3410	/			
Give reason for modificati	on under Item II.A.	KPDES Branch (502) 564-3410				
	D CONTACT INFORMATION	AGENCY 0 0 3 3 8 4	\supset			
A. Name of business, municipality, comp City of Montic						
B. Facility Name and Location		C. Facility Owner/Mailing Address				
Facility Location Name:		Owner Name:				
	ter Treatment Plant	Monticello Utility Commission				
Facility Location Address (i.e. street, roa	d, etc.):	Mailing Street:				
	erly Sewer Plant Rd)					
Facility Location City, State, Zip Code:	()	Mailing City, State, Zip Code:				
Monticello, KY 426	33 (606) 348-8230	Monticello, KY 42633				
		Telephone Number:				
		(606) 348-8473				
II. FACILITY DESCRIPTION						
A. Provide a brief description o	f activities, products, etc:					
Municipal W	astewater Plant					
B. Standard Industrial Classificat	tion (SIC) Code and Description					
Principal SIC Code &						
Description:	9199					
Other SIC Codes:						
III. FACILITY LOCATION						
	vey 7 ½ minute quadrangle map for	the site. (See instructions)				
B. County where facility is locate	ed:	City where facility is located (if applicable):				
Wayne		Monticello				
C. Body of water receiving disch	narge:					
Elk Creek D. Facility Site Latitude (degrees	minutes seconds):	Facility Site Longitude (degrees, minutes, seconds):				
36 degrees/48 minu		84 degrees/52 minutes/45 seconds				
Jo degrees/ 40 mind	000,00 0000140	0. 003-000/ 00				
E. Method used to obtain latitude	e & longitude (see instructions): To	ро Мар				
F. Facility Dun and Bradstreet Number (DUNS #) (if applicable): N/A						

IV. OWNER/OPERATOR INFORMAT	<u>rion</u>	•			
A. Type of Ownership: Description Privately Owned Privately	ned State Owned	Roth Public and Priv	ate Owned Federally owned		
B. Operator Contact Information (See inst			ac Owned rederany owned		
Name of Treatment Plant Operator:	ructions)	Telephone Number:			
David L. Edwards		(606) 348-82	230		
Operator Mailing Address (Street):					
Rt 8 Box 5305					
Operator Mailing Address (City, State, Zip Code): Monticello, KY 42633					
Is the operator also the owner?		Is the operator certified? I	f yes, list certification class and number below.		
Yes No X Yes X No No					
Certification Class:		Certification Number:	5571		
Class 11	<u> </u>	<u> </u>	3371		
V. EXISTING ENVIRONMENTAL PE	DMITC				
Current NPDES Number:	Issue Date of Current Pen	mit:	Expiration Date of Current Permit:		
KY 0033847	8-1-2000		11-30-04		
N 1 CT Po in Princed	Date of Original Domait Is		Sludge Disposal Permit Number:		
Number of Times Permit Reissued:	Date of Original Permit Is	suance.	#116-00010		
			#110-00010		
Kentucky DOW Operational Permit #:	Kentucky DSMRE Permi	t Number(s):			
	<u></u>				
C Which of the fellowing of History and		atian aataaaniaa will ala	a amply to this facility?		
C. Which of the following additional envir	omnentat permitregisus	ation categories will als	o apply to this facility!		
			PERMIT NEEDED WITH		
CATEGORY	EXISTING PE	RMIT WITH NO.	PLANNED APPLICATION DATE		
Air Emission Source					
*					
Solid or Special Waste	#116-000	10			
TY					
Hazardous Waste - Registration or Permit					
		:.			
VI. DISCHARGE MONITORING REI	PORTS (DMRs)				
KPDES permit holders are required to s	ubmit DMRs to the Di	vision of Water on a	regular schedule (as defined by the KPDES		
		tify the department, offi	ice or individual you designate as responsible		
for submitting DMR forms to the Division	of Water.				
		T			
A Name of demandance official of	hamittina DMDa	Leroy Mikel			
A. Name of department, office or official submitting DMRs: Leroy Mikel					
B. Address where DMR forms are to be se	ent (Complete only if ad	dress is different from t	mailing address in Section I.)		
B. Address where Divin forms are to be se	I Complete only if the				
DMR Mailing Name:	Mailing Name: Monticello Utility Commission				
			· · · · · · · · · · · · · · · · · · ·		
DMR Mailing Street:	P.O. Box 549	1100 N.	Main St.		
DMR Mailing City, State, Zip Code: Monticello, KY 42633					
	(606) 340 04	72			
DMR Official Telephone Number:	(606) 348-8473				

3711	A DDI	TAL	TION	TAIC	DEST

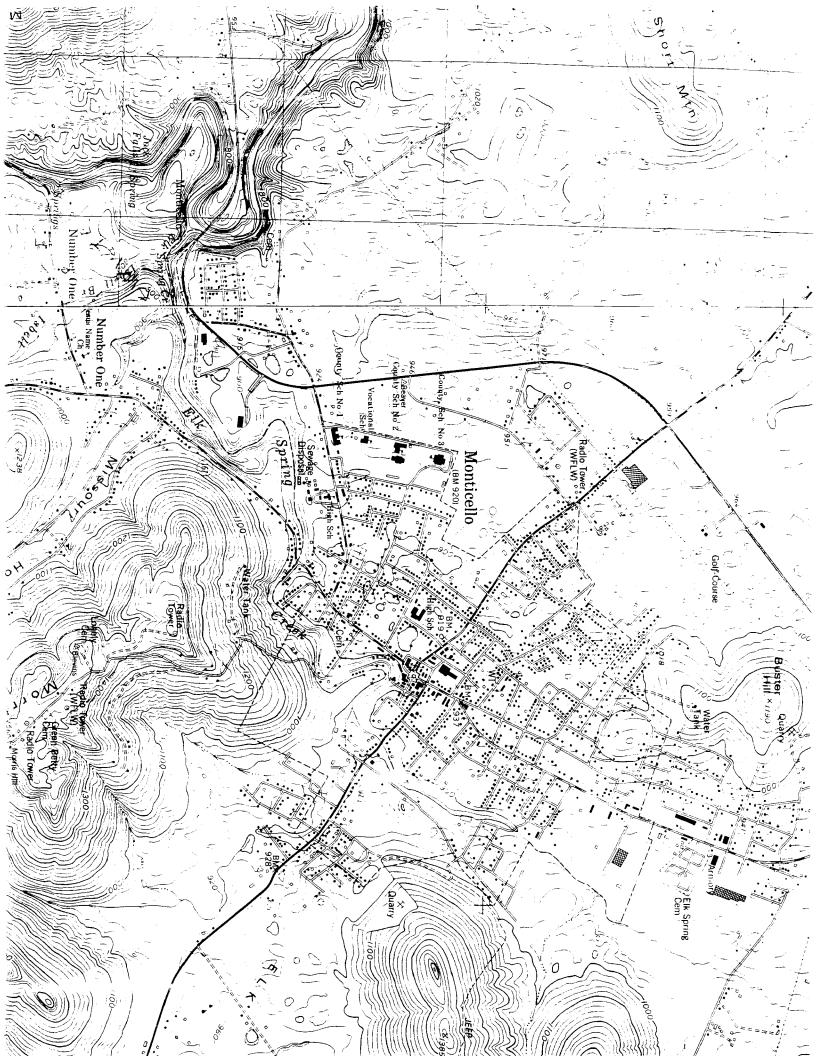
KPDES regulations require that a permit applicant pay an application filing fee equal to twenty percent of the permit base fee. Please examine the base and filing fees listed below and in the Form 1 instructions and enclose a check payable to "Kentucky State Treasurer" for the appropriate amount. Descriptions of the base fee amounts are given in the "General Instructions."

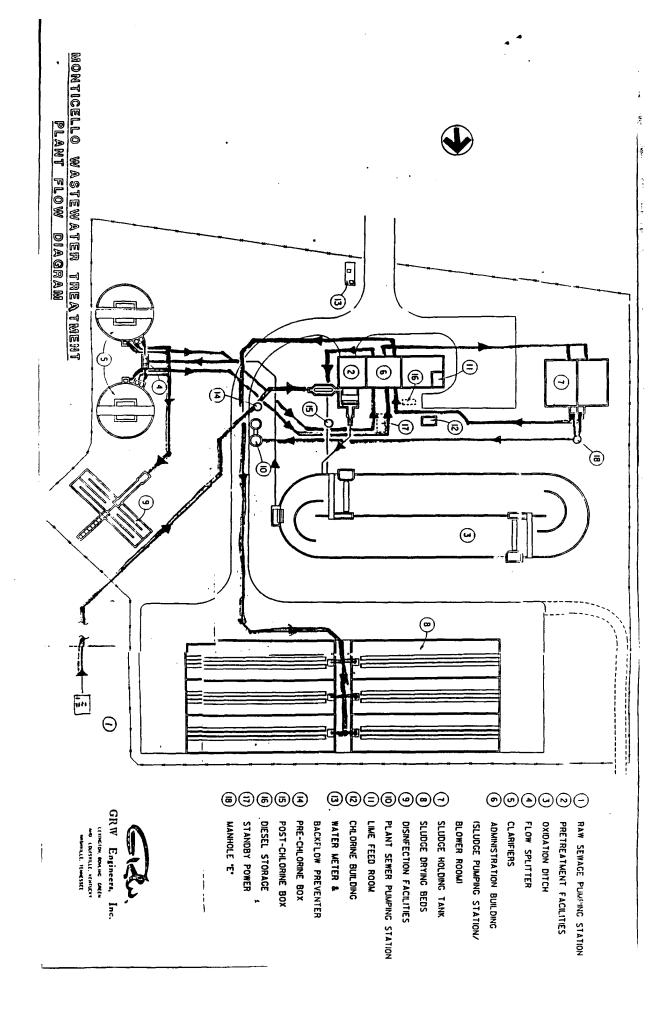
Facility Fee Category:	Filing Fee Enclosed:	

VIII. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (type or print):	TELEPHONE NUMBER (area code and number):			
Leroy mittel Manager	604-348-8473			
SIGNATURE	DATE:			
Jewy mily	7-9-04			







Accredited Lab Data for Today's Environment

Fax: 859-278-5665

2520 Regency Road

Lexington, KY 40503-2921 Phone: 859-276-3506 Toll Free: 800-489-3506

Email: info@envirodatagroup.com www.envirodatagroup.com

May 24, 2004

Mr. Leroy Mikel Monticello Utility Commission P.O. Box 549 Monticello, KY 42633

RE:

Biomonitoring Results

Bio. Log No.: 311815, 312496, 313194

Dear Mr. Mikel:

Enclosed are copies of the data sheets for the most recent biomonitoring tests for the Monticello Wastewater Treatment Plant. A summary of the findings is presented below.

Test Type	Pimephales promelas
Sample Collection Dates	May 3 - 7 , 2004
Test Concentrations	18, 36, 71, 85, 100%
Permit Limit	1.4
IC ₂₅	> 100%
Chronic Toxicity Units (TU _c = 100/IC ₂₅)	< 1.0
Result	Non-Toxic .

If you have any questions or comments concerning the enclosed report, please feel free to contact me.

Sincerely,

SHARON HAMI, I AN Sharon Hamilton

Biology Section Manager

Enclosures 62montic.doc

Test Type: Chronic Definitive

KENTUCKY TOXICITY TEST REPORT SHEET SAMPLE NUMBERS: 311815, 312496, 313194

1) Facility/Discharger: Monticello Wastewater Treatment Plant Report Date: May 24, 2004

2) Address: Highway 90 Monticello, KY 42633 Wayne County

3) KPDES Permit #: KY0033847

4) Receiving Stream: Elk Lick Creek

5) Facility Contact: Mr. Leroy Mikel Phone #: (606) 348-8230

6) Testing Lab Name: EnviroData Group, LLC

7) Lab Contact: Ms. Lisa Martin Phone #: (859) 276-3506

8) Outfall(s) Tested: 001

9) Average daily flow (MGD): Not recorded on chain of custody record.

10) Test Species: Pimephales promelas

11) Species Age: < 24 hours

12) Organism Source: In-house culture

13) Acclimation Procedure: N/A

14) Test Conditions: (Static, Static-Renewal): Static-Renewal

15) Dilution Water Type (synthetic, receiving stream): Synthetic

16) Aeration? (Before/During Test): None

17) Dechlorination?: No Original Chlorine Level: < 0.02 mg/L

18) Reference Toxicant Test Results:

Species	Date	Time	Duration	Toxicant	Results (IC ₂₅)
Pimephales promelas	05/12/04	15:00	7 days	NaCl	3854 mg/L

SAMPLING SUMMARY MONTICELLO WASTEWATER TREATMENT PLANT

	—		Sample Collection Begin End		Sample	Rain
Outfall	Type Grab/Composite	Volume Collected			Temp. (°C)	Fall (inches)
001	Composite	2 gallons 2 gallons 2 gallons	05/02/04 8:00 AM 05/04/04 8:00 AM 05/06/04 8:00 AM	05/03/04 8:00 AM 05/05/04 8:00 AM 05/07/04 8:00 AM	1.0 3.0 1.0	NR ¹ NR NR

¹ NR - Not Recorded on Chain of Custody Record.

Dates / Times of Test Performance: 05/04/04 14:00 - 05/11/04 15:00

TOXICITY TEST RESULTS FOR MONTICELLO WWTP PIMEPHALES PROMELAS SURVIVAL AND GROWTH DEFINITIVE TEST CONDUCTED 05/04/04 - 05/11/04 USING EFFLUENT FROM OUTFALL # 001

Test Solution		Daily Percent Survival							
	1	2	3	4	5	6	7	Total	Mean
Control	100	100	100	100	100	100	98	18.61	0.465
18% Effluent	100	100	100	100	100	100	100	20.53	0.513
36% Effluent	100	100	100	100	100	100	100	22.13	0.553
71% Effluent	100	100	100	100	100	100	100	21.72	0.543
85% Effluent	100	100	100 ·	100	100	100	100	19.87	0.497
100% Effluent	100	100	100	100	100	100	100	20.63	0.516
IC ₂₅ > 100%					TU _c < 1.0				
95% Confidence Limits UL = N/A LL = N/A					Permit Limit TU _c = 1.40				
UL – Upper Limit LL – Lower Limit									

 1 NOTE: $TU_{c} = 100/IC_{25}$

ADDITIONAL TOXICITY TEST INFORMATION

- 1) Submit copies of all bench sheets and statistical calculations/printouts obtained during the test(s). Data must be presented in tabular form and must include all physical and/or chemical measurements recorded during the test (e.g. temperature, conductivity, total residual chlorine, dissolved oxygen, etc.). See appendix.
- 2) Methods/Instrumentation used in chemical analysis:

Dissolved Oxygen: EPA method 360.1 Using a Thermo Orion Model 850 A+

pH: EPA method 150.1 Using a Fisher Scientific Accumet Model AB15

Conductivity: EPA method 120.1 Using a Fisher Scientific Accumet Model AB30

Alkalinity: EPA Titrimetric Method 310.1 or EPA Colorimetric Method 310.2 Using a Lachat

Autoanalyzer

Hardness: EPA Method 200.7/9.3 Using an Accuris ICP Analyzer

Chlorine: EPA method 330.4 DPD Ferrous Titrimetric Method

EPA Chronic Manual Edition and Date: EPA 821-R-02-013 October 2002

3) Indicate below any other relevant information that may aid in the evaluation of this report. Include any deviations from EPA methodology that were necessary for these tests as well as any sample manipulations which were performed, such as aeration, dechlorination with sodium thiosulfate, etc. and the justification for such manipulations or deviations. Attach additional pages as needed. None performed.

ROW HAMI H

Sharon Hamilton

Biology Section Manager



2520 Regency Rd. Lexington, KY 40503 Phone: 859-276-3506

Toll Free: 800-489-3506 Fax: 859-278-5665

E-mail: info@envirodatagroup.com

Analytical Results

Monticello Utilities Commission Attn: Mr. David Edwards PO Box 549 Monticello, KY 42633

Project Name: Bio Project Number: Chain of Custody: 29434

cc: PDF to mwwtp@net-power.net

Date Received: 5/3/2004

Project Manager: Becky Bryant

Collector: Client

Temperature Received: 1

Result Units Client Limit RL Qualifiers Analyzed/Analyst Extracted Composite End Date: 05/03/2004 08:00 Laboratory Sample #: 311815 Client Sample ID: Effluent Composite Start: 5/2/2004 08:00 Client Sample #: Prep. Method: N/A

Method: EPA330.4 Chlorine, Total Residual Analyzed: 05/03/2004 / JAB 0.020 Chlorine, Total Residual " < 0.020 mg/L N/A Prep. Method: N/A Method: EPA821-R-02-013/1000.0 **Chronic Toxicity** Please See Attached

Prep. Method: CALC Method: SM 2340B **Total Hardness** 1.25 TO 118 mg/L CaCO3 N/A Hardness, Total Method: EPA 310.2 Alkalinity, Total

102 mg/L CaCO3 N/A Alkalinity, Total

30

Analyzed: 05/05/2004 16:19/

Prep. Method: N/A

Analyzed: 05/05/2004 23:01/VSM

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced except in full, without written approval of this laboratory.



Lab# E87286



Submitted by:

Project Manager: Becky

Please contact Becky Bryant with any questions.

Specific tests covered by A2LA and NELAC accreditations meet the requirements of these accreditation standards.



Chain of Custody: 29434 Project Name: Bio

Project Number:

Result

Units

Client Limit

RL Qualifier

Analyzed/Analyst

Extracted

Data Qualifiers

Qualifier	Description
A	E. coli Present.
A'	E. coli absent.
В	Analyte detected in associated Method Blank.
C	Sample Result confirmed.
D	Results reported from dilution.
Е	Analyte concentration exceeds calibration range.
F	Unable to analyze due to sample matrix interference.
Н	Sample was received or analyzed past the established holding time.
J	Estimated concentration.
K	Sample contained lighter hydrocarbon fractions.
L	Sample contained heavier hydrocarbon fractions.
M	Matrix Spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Presumptive evidence of analyte present.
O	Sample hydrocarbon pattern does not match calibration standard pattern.
P	Percent difference between primary and secondary column concentrations exceeds acceptance limit.
Q	Laboratory Control Sample outside acceptance limits.
R	Data unusable.
S	Surrogate outside acceptance limits on initial and reanalysis.
S'	Surrogates diluted below detection.
T	Sample received improperly preserved.
U	Analyte not detected.
W	Raised Quantitation or Reporting Limit due to limited sample volume.
Y	Replicate/Duplicate precision outside acceptance limits.
Z'	Calibration criteria exceeded but for this situation acceptable by method.
Z	Calibration criteria exceeded.
M'	Result from Method of Standard Additions (MSA).
Q'	LCS/LCD analyzed due to insufficient sample for MS/MSD.

The uncertainty of analytical results can be calculated using the following equation: n= t*s/1.414

where

t=12.706 (Students t value for 95% confidence interval of two replicates)

s= standard deviation of sample and duplicate data

1.414 is square root of the number of replicates (two)



2520 Regency Rd. Lexington, KY 40503 Phone: 859-276-3506

Toll Free: 800-489-3506 Fax: 859-278-5665

E-mail: info@envirodatagroup.com

Analytical Results

Monticello Utilities Commission Attn: Mr. David Edwards PO Box 549 Monticello, KY 42633

Project Name: Bio Project Number: Chain of Custody: 29515

cc: PDF to mwwtp@net-power.net

Date Received: 5/5/2004

Project Manager: Becky Bryant

Collector: Client

Temperature Received: 3

Result Units Client Limit RL Qualifiers Extracted Analyzed/Analyst Composite End Date: 05/05/2004 08:00 Laboratory Sample #: 312496 Client Sample ID: Effluent Composite Start: 5/4/2004 08:00

Client Sample #:

Alkalinity, Total

Prep. Method: N/A Method: EPA 330.4 Chlorine, Total Residual Analyzed: 05/05/2004 / JAB < 0.020 mg/L N/A 0.020 Chlorine, Total Residual Prep. Method: N/A Method: EPA 821-R-02-013/1000.0 **Chronic Toxicity** Please See Attached Prep. Method: CALC Method: SM 2340B

Total Hardness 1.25 TM 118 mg/L CaCO3 Hardness, Total Method: EPA 310.2 Alkalinity, Total

83 mg/L CaCO3

Prep. Method: N/A 30

Analyzed: 05/05/2004 23:12/ VSM

Analyzed: 05/11/2004 12:16/

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced except in full, without written approval of this laboratory.



Lab# E87286



Submitted by: Lab#: 100343

Bryant

Please contact Becky Bryant with any questions.

Specific tests covered by A2LA and NELAC accreditations meet the requirements of these accreditation standards.



Chain of Custody: 29515 Project Name: Bio Project Number:

Result

Units

Client Limit

RL

Qualifier

Analyzed/Analyst

Extracted

Data Qualifiers

Qualifier	Description
A	E. coli Present.
A'	E. coli absent.
В	Analyte detected in associated Method Blank.
C	Sample Result confirmed.
D	Results reported from dilution.
E	Analyte concentration exceeds calibration range.
F	Unable to analyze due to sample matrix interference.
Н	Sample was received or analyzed past the established holding time.
J	Estimated concentration.
K	Sample contained lighter hydrocarbon fractions.
L	Sample contained heavier hydrocarbon fractions.
M	Matrix Spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Presumptive evidence of analyte present.
O	Sample hydrocarbon pattern does not match calibration standard pattern.
P	Percent difference between primary and secondary column concentrations exceeds acceptance limit.
Q	Laboratory Control Sample outside acceptance limits.
R	Data unusable.
S	Surrogate outside acceptance limits on initial and reanalysis.
S'	Surrogates diluted below detection.
T	Sample received improperly preserved.
U	Analyte not detected.
W	Raised Quantitation or Reporting Limit due to limited sample volume.
Y	Replicate/Duplicate precision outside acceptance limits.
Z'	Calibration criteria exceeded but for this situation acceptable by method.
Z	Calibration criteria exceeded.
M'	Result from Method of Standard Additions (MSA).
Q'	LCS/LCD analyzed due to insufficient sample for MS/MSD.

The uncertainty of analytical results can be calculated using the following equation: n= t*s/1.414

where

t=12.706 (Students t value for 95% confidence interval of two replicates) s= standard deviation of sample and duplicate data

1.414 is square root of the number of replicates (two)



Accredited Lab Data for Today's Environment

2520 Regency Rd. Lexington, KY 40503 Phone: 859-276-3506

Toll Free: 800-489-3506 Fax: 859-278-5665

E-mail: info@envirodatagroup.com

Analytical Results

Monticello Utilities Commission Attn: Mr. David Edwards PO Box 549

Monticello, KY 42633

Project Name: Bio Project Number: Chain of Custody: 29597

cc: PDF to mwwtp@net-power.net

Date Received: 5/7/2004

Collector: Client

Project Manager: Becky Bryant

Temperature Received: 1

	Result	Units	Client Limit	RL	Qualifiers	Analyzed/Analyst Extracted
Laboratory Sample #: 313194 (Client Sample ID: Effli	uent				Composite End Date: 05/07/2004 08:00
						Composite Start: 5/6/2004 08:00
Client Sample #:						
Chlorine, Total Residual		Meth	od: EPA330.4			Prep. Method: N/A
Chlorine, Total Residual	< 0.020	mg/L	N/A	0.02	0	Analyzed: 05/07/2004 / JAB
Chronic Toxicity		Meth	od: EPA 821-R-02-013/	1000.0		Prep. Method: N/A
Please See Attached Total Hardness		Meth	od: SM 2340B			Prep. Method: CALC
Hardness, Total	115	mg/L CaCC	N/A	1.2	5 T	Analyzed: 05/18/2004 09:44/
Alkalinity, Total		Meth	od: EPA 310.2			Prep. Method: N/A
Alkalinity, Total	105	mg/L CaC0	N/A	3	0	Analyzed: 05/14/2004 00:17/VSM

All samples were received intact and properly preserved unless otherwise noted.

The results reported relate only to the samples tested.

This report shall not be reproduced except in full, without written approval of this laboratory.



Lab# E87286



Lab#: 100343

Submitted by:

Project Man

Please contact Becky Bryant with any questions.

Specific tests covered by A2LA and NELAC accreditations meet the requirements of these accreditation standards.



Chain of Custody: 29597 Project Name: Bio Project Number:

Result

Units

Client Limit

Qualifier

RL

Analyzed/Analyst

Extracted

Data Qualifiers

Qualifier	Description
A	E. coli Present.
A'	E. coli absent.
В	Analyte detected in associated Method Blank.
C	Sample Result confirmed.
D	Results reported from dilution.
E	Analyte concentration exceeds calibration range.
F	Unable to analyze due to sample matrix interference.
Н	Sample was received or analyzed past the established holding time.
J	Estimated concentration.
K	Sample contained lighter hydrocarbon fractions.
L	Sample contained heavier hydrocarbon fractions.
M	Matrix Spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Presumptive evidence of analyte present.
О	Sample hydrocarbon pattern does not match calibration standard pattern.
P	Percent difference between primary and secondary column concentrations exceeds acceptance limit.
Q	Laboratory Control Sample outside acceptance limits.
R	Data unusable.
S	Surrogate outside acceptance limits on initial and reanalysis.
S'	Surrogates diluted below detection.
T	Sample received improperly preserved.
U	Analyte not detected.
W	Raised Quantitation or Reporting Limit due to limited sample volume.
Y	Replicate/Duplicate precision outside acceptance limits.
Z'	Calibration criteria exceeded but for this situation acceptable by method.
Z	Calibration criteria exceeded.
M'	Result from Method of Standard Additions (MSA).
Q'	LCS/LCD analyzed due to insufficient sample for MS/MSD.

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where

t=12.706 (Students t value for 95% confidence interval of two replicates)

s= standard deviation of sample and duplicate data

1.414 is square root of the number of replicates (two)

' FATHEAD MINNOW LARVAL SURVIVAL AND GROWTH TEST EPA 821-R-02-013, METHOD 1000.0



2520 Regency Road Lexington, Kentucky 40503-2921

LFA 021-N-02-010, WETTIOD TOUCH	
Discharger: Monticello	Date/Time Test Terminated: 5/11/04 - 1500
Sample Description:	Organism Batch Number: 8-478
Bio. Log No: 311815, 312496, 313194	18 ਹਨ 41 5/4/04 Initial Organism Age: <u>2 24 hours</u>
Date/Time Test Initiated: 5, 4/04 - 1400 - JB	Dilution Water Used: Mod . Hard
Dilution Water Batch Number on Day: 1: 495 2: 495	3: 496 4: 498 5: 499 6: 499 7: 499
Time of Day Renewed on Day: 1: 13°C 2: 1400	3: 1100 4: 15 ⁰⁰ 5: 1400 6: 15 ⁰⁰

			No.	of Live	e Larva	ae (Da	ys)			Wt. of	Wt. of	Total		Mean	
Test	Test Cont.			Sam	ple Da	ites			Tin	Tin &	Tin	Wt. of	Mean Wt. of	Wt. for	
Conc.	No.	5/3	5/3	5/5	5/5	5/7	5/7	5/7	No.	Larvae (mg)	(mg)	Larvae (mg)	Larvae (mg)	Treatment (mg)	
		1	2	3	4	5	6	7		4	25-11-24		(5)		
	1	10	10	10	10	10	10	ίÒ	1	951.98	956.55	4,57	0.457		
	2	10	10	10_	10	10	10	10	2	952,06	957.05	4.99	0.499		
COntrol	3	10	lo	10	10	10	10	10	3_	953.46	957,89	4,43	0.443		
	4	io	10	10	10	10	10	9	4	957.90	962,52	4.62	0.462	0.465	
	5	10	10	10	10	10	10	10	5	959.18	96436	5.18	0.518		
	6	10	10	10	10	10	10	10	6	953.38	958.44	5.06	0.506		
13	ר	10	10	10	10	10	10	10	7	949.05	95393	4.88	0.488		
	3	10	10	10	10	10	10	10	8	952.69	958.10	5.41	0.5419	513	
· · · · · · · · · · · · · · · · · · ·	9	10	10	10	10	10	10	10	9	954.44	960,18	5.74	0.574		
	10	10	10	10	10	10	10	io	10	957.88	963,55	5.67	0.567		
34	11	io	10	10	10	10	10	16	1/	953.33	958,04	4.71	0.471		
	12	10	10	10	10	10	10	10	12	953,43	959.44	6.01	0.601	0.553	
	13		10	10	10	10	10	10	13	956.47	961.88	5.41	0.541		
	14		(D	10	10	10	10	io	14	953.75	959.13	5.38	0.538		
71	15		10	10	10	10	10	10	15	954.00	959.35	5,35	0.535		
İ	160	10	10	10	10	10	10	10	16	955,57	961.15	5.58	0.558	0.543	
	Ŋ	iO	10	10	10	10	10	10	17	952,00	957.26	5,26	0.526		
	18	10	10	10	10	10	10	10	18	953,30	957.81	4.51	0.451		
_35	19	10	10	10	10	10	10	Ib	19	95250	957.88	5.38	0.538		
	20	10	10	10	(0)	10	10	10	20	952.85	95757	4.12	0.472	0.497	
	21	io	10	10	10	10	10	10	21	951,54	95634	4.80	0.480		
	22	10	10	10	10	10	10	10		953.05		5.43	0.543		
100	23	ID I	10	10	10	10	10	10	23	949.66		5, 185	0.5185	5000	
	2M	10	10	10	10	10	10	10	24		955.42	5,25	0.525		0
Analyst		+	元	†*************************************	PM		JB	TL		兀	π	TL	TL	TL	
Notes: Bala	ance Use	d: Ba	lance	Α								Approved	By TA	3	Å

Unless noted, specific test conditions are in EPA 821-R-02-013 Table

2520 Regency Road Lexington, Kentucky 40503 (859) 276-3506

Biomonitoring Checklist

Client name	Monticulo CFD	
Sample Numbers	311815, 312496,	313194

Yes	No	NA
1		
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SHORT-TERM CHRONIC TOXICITY TEST TEMPERATURE RECORD



EnviroData 2520 Regency Road Lexington, Kentucky 40503-2921 (859) 276-3506

Discharger: Monticulo Location:	Test Protocol Temperat	
Sample Number(s): 311815, 312496, 313194	Test Organism: (circle as appropriate)	C. dubia, P. promelas M. beryllina, M. bania Other:

						Te	mpera	ture (°	°C)					
Sample	Da	y 1	Da	y 2	Da	y 3	Da	y 4	Da	y 5	Da	y 6	Da	y 7
Identification	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Control	24.7	25,2	25.1	25.3	25.3	25.0	253	24.3	242	24.0	24.3	24.4	245	25.)
12		25.2			25.1	25.6	25 ²	24.3	24.2	24.0	24.3	244	24.7	25.1
36						24.9		•		4	:24.3	24.5	24.8	25.0
וכ						249					24.3	243	25.1	25.0
35					1	249		•		1	24.3	24.3	25.5	250
100						25.0					24.3	24.2	25.8	250
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Analyst	JB	兀	TL	T	TL	兀	TL	PM	ρM	SH	34	ಡ	JB	TL

Comments:

TEMP RANGE 24.0 - 25.8°C

Acceptable Range 25.0°C +/- 1.0°C

Thermometer Used: Set #1 ____ Set #3 ____ Set #1 correction factor is 0.1 °C at 25°C Set # 3 correction factor is 0.0°C at 25°C

CHEMICAL AND PHYSICAL ANALYSIS DATA SHEET / FRESH WATER

	Envi
Group	roData

2520 Regency Road Lexington, Kentucky 40503 (859) 276-3506

TEST ORGANISM (Check one): _____Ceriodaphnia dubia (Method 1002.0) _ SAMPLE DATE: Day 1_5/3 Day 2_5/3 Day 3_5/5 Day 4_5/5 SAMPLE NUMBER(S): 311815 TEST IN __ TEST INITIATION DATE/TIME: Pimephales promelas (Method 1000_0) Day 5_5/7 Day 65/7 Day 7_5/7

Analyst			100	25	J. '		12	Control		(%)	EFFLUENT	
1213			73 7	77 7.6	7.4	7.5 (7.6/	7.5 61	ЭЯЧ	1		
7			_	Γ .	6.9	1	-	1	PO\$1			
Ħ			72	7.3	7.%	74	75	77 65 76 65 7.765 76 667.7 7.074 64 7.8 6.0	PRE	2		
7		•	5.0	2.0	7	ale	0.6	5	POST			
4			7.2	7,2	73	7.4	4.7	7.6	PRE	3		Ę
4			6.8	6.8	1.7	6.6	66	5.9	POST			рН (Standard Units) МЕТЕR A
7	į		1.7	7,2	7.3	7.4	7.4	7.7	PAG B	4	TEST DAY	lard Ur
71_ PM			7.9	1.3	6.6	9	66	6.5	POST		DAY	iits) M
PM			4	7.3	S	7.4	7.4	76	PRE	ζī,		ETER
311			6%	6.8	68	6.7	6.6	6.6	POST			P
148			7,2	7.3	ر ان	7.3	٦. ن	7.7	PRE	б		
1 951 24 28 25 72 25 H		,	74	7.4	74	7.0	7.0	7.0	POST	0,		
व्यट			J S	7.6	1.6	7.6	7.5	ドレ	PRE			
72			6.9	6.8	6.6	6.6	6,5	10.4	POST	7		
30		,	<i>1</i> 20	رن جو	8.2	8.	8.0	8.5	PRE			
A			1,0	212	60	5.7	10.0	0.0	POST			
4			8,3	57.50	<u>م</u> رد	2.0	٠ <u>٠</u>	79	PRE	2		
h			4,9	5,4	8.156	5,7	6.	6.8	POST	.~		
F			4.8	1.8	8.2	3,30	80	8.0	PRG			OSSIC
A			2.4	20	2	17.	6.0	6.5	POST	ω		VED C
A			8	00 Ui	8.2 5.1 83 53	9.2 5.7 8.3 5.1 8.3 55	'V'	8/4	P	4	TEST)XYGE
pm			4.7	20	5.3	5.5	60	6.3	POST	-	TEST DAY	N (mg/
PLA			73	7.3	23	22	82	7.9	70 20 20			<u> </u>
IMM DHEIND			8.8	8.2 5.4 8.4 5.08 3 5.0 7.3 6.0 8.3	P3 5.6 8.2 6.2	82 6.08.3	40 6.1 8.1 6.0 8.5 6.0 82 6,28.3 1. 1 8.06.	4.5 78 63 79 6,2 80 6,2 78	POST	o.		DISSOLVED OXYGEN (mg/L) METER A
HE			138	7	8.2	رد در	3	80	PRE			
1713		•	6	60	6.2	-	1	6.2	POST	6		
9			8	82	8.16.4	18.06.2	8.0	7.8	PRE			
月			6.7	6.2	6.4	6.2	6.1	6.0	POST	_		

1 Toxicity Test Method Manual: EPA 821-R-02-013; Method numbers for chemical parameters are listed on appropriate chemical bench sheets.	Analyst				ē	S. S.	ī	30	જ	Control	(%)	ETTLOEN!	בירון וודגוד
Manual: EPA	JB				570	532	497	415	371	325			
821-R-02-013;	4				565	532	493	HOG	300	317	2		SPECIFI
Method numbe	7				542	5/2	レレナ	398	357	32/	ω		C CONDUC
ers for chemical	7				526	493	458	32	346	309	4	TEST DAY	SPECIFIC CONDUCTANCE (µmhos/cm) METER A
parameters are	TC PM				511	510	473	395	351	3/7	σı		າhos/cm) N
listed on appro	415				294	557	5/7	420	369	321	თ		METER A
priate chemical	30				594	553	528	38 JUL 424	378	307	7		
bench sheets. Sample treatment with Sodium Thiosulfate?YesNo	<u>8.3</u> mg/L.	100% mortality demonstrated 1 hr after test initiation? Yes No V Dissolved oxygen monitored 2 hrs after test initiation. Highest concentration was	Hardness Accept. Range 80 – 100 mg/L	Hardness: 61 80° 60 60 00 00 mg/L Alkalinity Accept. Range 60 – 70 mg/L	0	Alkalinity: 70 68 68 68 68 mg/L	Cay			Sample #3: 40.02 mg/L	Total Residual Chlorine: Sample #1: <u>¿0,02</u> mg/L Sample #2: < 0,0 2 mg/L	Comments:	

1:\biology\forms\chemicalsheet2

Approved by:

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Date/Time 1752 Date/Time 1406 Date/Time	74:0	\$-5-04 \$-5-04 \$-5-04	mon 1	A P A	E ONE	Received by: Signature Signature Signature		Date Date Date	1 hes. 5.5.5	Sylvan S		Signature Signature Signature Signature Signature	. •
	55,00	rge ()s	Consultant Field Charge ()	Consulta	ent ()	Bus () Client ()	<u> </u>	Fed Ex (UPS () Airborne Express () (Fill in from top down):) Airbom	1_	COMMENTS: SAMPLE DELIVERY: UPS() Airborne Exp SAMPLE RECEIVING (Fill in from top down):	
						(MGD)_	Daily Flow (MGD), Daily Flow (MGD)	No Trace No Trace		Amount Amount	Rain Event: Yes Amount (in.) Rain Event: Yes Amount (in.)	First Day Ra Second Day Ra	
Clean, Cobaless	2401	1352	Can	·	06:01	7	F. B	60 J.F	Valor, 9	10.5.5	5:404 8:80°	2 5	
Visual Description	Volume Collected	t at EDG	Temp (°C) upon receipt at EDG Date: Aboratory Rec. by Time	Temp (°C) Date: Laboratory	me	ick up / shippi	on P	Temp (°C) upon Date: On site Rec. by	Time	To Date	From Date Time	Composite	
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Description	Collected	Time	Rec. by		Laboratory	Time	Client Init.	Rec. by	On site	Time	Date	-	
Visual .	Volume	EDG	C) upon receipt at EDG	np (°C) upoi Date:	Temp (°) Date	ing	k up / shipp	Temp (°C) upon Pick up / shipping Date:	Temp (°C		Collection	Grab	
	Ву:		Notification Time:	Bio, Notific	EDG use only:	ED						SAMPLE TYPE:	
, LLC ad 503-2921	EnviroData Group, LLC 2520 Regency Road Lexington, Kentucky 40503-2921 (606) 276-3506	Envi Lexing			wwrp cos33847	Don Kestee mwwTP	it #:	Collected by: Facility Samp NPDES Perm	9515	100 Z	DBY RECO	CHAIN OF CUSTORY RECCE Bio Log No.: 312 116 Collent: Mantice// Dutall/Station:	

Virginia Clients - please complete reverse side

Client: ___ Outfall/Station:_ CHAIN OF CHSTORY RECORD 29597 BIOMONITORING SAMPLE DELIYERY: UPS() Airborne Express() Second Day First Day SAMPLE RECEIVING (FIII in from top down): COMMENTS SAMPLE TYPE: Composite Grab Refinguished by Signature Morriallo UT. lities 140-9-5 5-6-64 8AM Rain Event: Yes Amount (in.) Rain Event: Yes Amount (in.), Date Date From Collection 842 Time Time 4025 5-04 8AZ Date 당 PAZ On site Time Temp (°C) upon Pick up / shipping 5-7-04 10215# Received by: 8,5 On site 2 2 Temp (°C) upon Pick up / shipping Rec. by Trace Trace Fed Ex () NPDES Permit #:_ Facility Sampled: Collected by:___ Date/Time Date/Time Date/Time 01 Rec. by Daily Flow (MCD) Cllent Init. Daily Flow (MGD) Client Init. Signature Signature Bus () Client () Signature MWWT Ky 00 3384 Time EDG use only: Bio. Notification Time: D.IS Time Laboratory Temp (°C) upon receipt at EDG Laboratory Temp (°C) upon receipt at EDG Consultant Field Charge () & Cally Rec. by 公分 Rec. by Time. i I I 2520 Regency Road Lexington, Kentucky 40503-2921 (606) 276-3506 EnviroData Group, LLC 55,00 Volume Collected Volume Collected Visual Description (ear Description Date/Time

Virginia Clients · please complete reverse side

Date/Time

Date/Time

CHAIN OF CUSTODY RECORD Bio Log No.: 3 | 8 | 5 | Col Bio Log No .:_ Outfall/Station: Client: BIOMONITORING Second Day SAMPLE RECEIVING (Fill in from top down): SAMPLE DELIVERY: UPS() Airborne Express() Fed Ex() COMMENTS First Day SAMPLE TYPE: Composite Grab Relinquished by Signature Rain Event: Yes Amount (in.)_ Rain Event: Yes Amount (in.)_ ケン Date Date From Collection 8:00 Time Time 5 5-3-09 Date To 8100 On site Time Temp (°C) upon Pick up / shipping 7.5.8 On site 2 S Rec. by Temp (°C) upon Pick up / shipping Trace Trace Collected by: NPDES Permit #: Facility Sampled: Date/Time Date/Time Date/Time Rec. by Client Init. Daily Flow (MGD)_ Daily Flow (MGD)_ Client Init. Signature Bus () Client () Signature Received by: Time EDG use only: Bio. Notification Time: 13 40 Time Laboratory Temp (°C) upon receipt at EDG Laboratory Temp (°C) upon receipt at EDG Consultant Field Charge (\\$ 5.5,00 Date: Rec. by 225 Rec. by 13:3 Time 5-7-04 5-3-04 1340 Time Lexington, Kentucky 40503-2921 EnviroData Group, LLC 2520 Regency Road By: JES (606) 276-3506 Volume Collected 2 garren Volume Collected Visual Description Description

Signature

Virginia Clients - please complete reverse side

Date/Time

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